# DECLARATION FOR PATENT APPLICATION

As an undersigned inve	entor, I hereby de	clare that:		
My residence, post of name.	fice address and	country of citizenship are as stated	directly	below my
I believe (check one) [	[X] I am a joir	riginal, first and sole inventor nt inventor and the below named inven- iginal and first inventors	tors are t	he
of the subject matter wh	hich is claimed a	nd for which a patent is sought on the i	nvention	entitled
NON-OXIDIZING SPACER DENSIFICATION METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICES				
,	is attached  [X] was filed of  as Applica	I hereto.  on July 30, 2001,  ation Serial No. 09/918,364,  mended on  (if applicable)		
		d and understand the contents of the mended by any amendment referred to a		-identified
<u> </u>	nation known to	e United States Patent and Trademark me to be material to patentability of . §1.56.	•	
patent or inventor's co	ertificate indicate or inventor's certi	under 35 U.S.C. § 119 of any foreigned below and have also identified bificate having a filing date before that	elow an	y foreign
Prior Foreign Application	on(s) ountry	Day/Month/Year Filed	Priority Claimed Yes	

I hereby claim the benefit under 35 U.S. C. §119(e) of any United States provisional application listed below:

#### Provisional Application Serial No.

#### Filing Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.

Filing Date

Status (patented, pending, abandoned)

Address all correspondence and telephone calls to the following:

William W. Enders O'KEEFE, EGAN & PETERMAN 1101 Capital of Texas Highway South Building C, Suite 200 Austin, TX 78746 (512) 347-1611 (512) 347-1615 (Fax)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint	inventor: BRETT D. LOWE		
Inventor's Signature But a Your 8/28/01			
	Date		
Residence: 13186 W	7. Buttercup Ct., Boise, ID 83713		
Citizenship: U.S.A.			
	SAME		
(+	enter "same" if mailing address is same as residence address)		

Full name of second joint inventor: JOHN A. SMYTHE	
Inventor's Signature 8-28-20 Date	01
Residence: 4546 S. Riva Ridge Way, Boise, Idaho 83709	
Citizenship: U.S.A.	
Post Office Address: SAME	
(enter "same" if mailing address is same as residence address	;)
Full name of third joint inventor: TIMOTHY K. CARNS	
Inventor's Signature 8-28-200 Date	
Date	
Residence: 693 E. Martinique Dr., Meridian, Idaho 83642	
Citizenship: U.S.A.	
Post Office Address: SAME	<del> </del>
(enter "same" if mailing address is same as residence address	,)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BRETT D. LOWE, ET AL.

Filed:

JULY 30, 2001

For:

NON-OXIDIZING SPACER DENSIFICATION METHOD FOR

MANUFACTURING SEMICONDUCTOR DEVICES

Group Art Unit:

2812

Examiner:

Unknown

Atty Dkt:

ZILG518

Pursuant to 37 C.F.R. 1.8, I certify that this correspondence is being deposited with the U.S. Postal Service in a first class, postage prepaid envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date below:

Data

Name

Assistant Commissioner For Patents

Washington, D.C. 20231

## ELECTION UNDER 37 C.F.R. §§3.71 AND 3.73 AND POWER OF ATTORNEY

Sir:

The undersigned being Assignee of record of the entire interest in the above-identified application by virtue of an assignment recorded in the United States Patent and Trademark Office as set forth below, hereby elects, under 37 C.F.R. §3.71, to prosecute the application to the exclusion of the inventor. A statement under 37 C.F.R. 3.73(b) (PTO Form PTO/SB/96 (6-98)) is concurrently filed herewith.

The Assignee hereby revokes any previous Powers of Attorney and appoints H. Shannon Tyson, Jr., Reg. No. 42,193 of ZiLog, Inc. and also appoints Robert M. O'Keefe, Reg. No. 35,630; Richard D. Egan, Reg. No. 36,788; Brian W. Peterman, Reg. No. 37,908, William W. Enders, Reg. No. 41,735, and Maximilian R. Peterson, Reg. No. 46,469, each an attorney of the firm of O'KEEFE, EGAN & PETERMAN, LLP, as its attorney for so long as they remain with such firm, with full power of substitution and revocation, to prosecute the application, to make

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alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Pursuant to 37 C.F.R. §3.73, the undersigned has reviewed the evidentiary documents, specifically the Assignment to ZiLOG, INC. referenced below, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

Please direct all communications as follows:

William W. Enders O'KEEFE, EGAN & PETERMAN, LLP 1101 Capital of Texas Highway South Building C, Suite 200 Austin, Texas 78746 512/347-1611 FAX 512/347-1615

ASSIGNEE:

ZILOG, INC.

		By: Daniel Mi Jochnowitz
Date:	8/10/01	Title: Vice President & General Counsel
ASSIGNM E C	Concurrently here	date](copy enclosed)

O'KEEFE, EGAN & PETERMAN, L.L.P. 1101 Capital of Texas Highway South Building C, Suite 200 Austin, Texas 78746 512-347-1611

# STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: Brett D. Lowe, et al. Filed/Issue Date: Herewith Application No./Patent No.: Unknown Entitled: NON-OXIDIZING SPACER DENSIFICATION METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICES Corporation ZiLog, Inc. (Type - Corp., Partner. Univ., Govt Agency, etc.) (Name of Assignee) states that it is: 1. the assignee of the entire right, title, and interest; or 2. an assignee of an undivided part interest in the patent application/patent identified above by virtue of either: An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and A.[X] Trademark Office at Reel \_\_\_\_\_\_, Frame \_\_\_\_\_\_, or for which a copy thereof is attached. OR A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: **B.**[ ] The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached. 2. The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached. 3. The document was recorded in the Patent and Trademark Office at Reel Frame or for which a copy thereof is attached. [] Additional documents in the chain of title are listed on a supplemental sheet. [X] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8] The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee. 8/10/01 Date Daniel Jochnowitz Typed or printed name Vice President & General Counsel Title

### **ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to ZiLog, Inc. (the "Assignee"), being incorporated under the laws of the State of Delaware, having a place of business at 910 East Hamilton Avenue, Campbell, CA 95008, the entire right, title and interest for the United States and all foreign countries in and to any and all improvement which are disclosed in the application for United States Letters Patent concurrently filed herewith entitled "NON-OXIDIZING SPACER DENSIFICATION METHOD MANUFACTURING SEMICONDUCTOR DEVICES," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and provisions of any convention or treaty and claim priority based on such application in the United States:

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature): BRETT D. LOWE	fave	Date: 7-23-01	
State of Idaho )			
)			
County of <u>Canyor</u> )			
BEFORE ME, the und	lersigned authority, on this	2310 day of July	, 20 <u>a</u> L,
personally appeared BRETT D			
foregoing instrument and ackn	owledged to me that he ex-	ecuted the same of his own	free will for the
purposes and consideration ther	ein expressed.		
	(Satr	ricia amen	
(SEAL)	Notary or (	Consular Officer	

(Signature): JOHN A. SMYTHE	Date: 7-26- 2001
State of Idaho )	
County of <u>Canyon</u> )	
	ty, on this <u>Ab</u> day of <u>July</u> , 2001, on to me to be the person whose name is subscribed to the that he executed the same of his own free will for the Notary or Consular Officer
	<u> </u>
(Signature): TIMOTHY K. CARNS	Date: 7-23-200/
State of Idaho )	
County of CAMYON)	
	ty, on this <u>23<sup>rd</sup></u> day of <u>July</u> , 2001, own to me to be the person whose name is subscribed to me that he executed the same of his own free will for the
[SEAL]	Notary or Consular Officer